**AIRLINE REGISTRATION SYSTEM**

**PROGRAM:**

#include<iostream>

#include<fstream>

#include<iomanip>

using namespace std;

void mainMenu();

class Management

{

public :

Management()

{

mainMenu();

}

};

class Details

{

public:

static string name, gender;

int phoneNo;

int age;

string add;

static int cId;

char arr[100];

void information()

{

cout<<"\nEnter the customer ID: ";

cin>>cId;

cout<<"\nEnter the Name: ";

cin>>name;

cout<<"\nEnter the age: ";

cin>>age;

cout<<"\nEnter the Address : ";

cin>>add;

cout<<"\nGender : ";

cin>>gender;

cout<<" Your details are saved with us\n "<<endl;

}

};

int Details::cId;

string Details::name;

string Details::gender;

class registration

{

public:

static int choice;

int choice1;

int back;

static float charges;

void flights()

{

string flightN[]={"dubai","canada","UK","USA","Austrilia","Europe","India"};

for(int a=0;a<7;a++)

{

cout<<(a+1)<<".flight to"<<flightN[a]<<endl;

}

cout<<"\n Welcome to the Airlines!! "<<endl;

cout<<"press the number to which country you want to book your flight: ";

cin>>choice;

switch(choice)

{

case 1:

{

cout<<"\_\_\_\_\_\_\_\_Welcome to dubai Emirates\_\_\_\_\_\_\_\n"<<endl;

cout<<"Following are the flights \n"<<endl;

cout<<"1. DUB - 498 "<<endl;

cout<<"\t08-11-2023 8:00AM 10hrs Rs.14000"<<endl;

cout<<"2. DUB - 698 "<<endl;

cout<<"\t09-11-2023 10:00AM 15hrs Rs.9000"<<endl;

cout<<"3. DUB - 798 "<<endl;

cout<<"\t10-11-2023 7:00PM 9hrs Rs.20000"<<endl;

cout<<"\nSelect the flight you want to book : ";

cin>>choice1;

if (choice1==1)

{

charges=14000;

cout<<"\nYou successfully booked the flight DUB-498 "<<endl;

cout<<" you can go back to main menu and collect the ticket "<<endl;

}

else if (choice1==2)

{

charges=9000;

cout<<"\nYou successfully booked the flight DUB - 698 "<<endl;

cout<<" you can go back to main menu and collect the ticket "<<endl;

}

else if (choice1==3)

{

charges=20000;

cout<<"\nYou successfully booked the flight DUB-798 "<<endl;

cout<<" you can go back to main menu and collect the ticket "<<endl;

}

else {

cout<< "invalid input ,shifting to previous menu :"<<endl;

flights();

}

cout<<"press any number key to go back to main menu :"<<endl;

cin>>back;

if (back==1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 2:

{

cout<<"\_\_\_\_\_\_\_\_Welcome to canadian airlines\_\_\_\_\_\_\_\n"<<endl;

cout<<"Following are the flights \n"<<endl;

cout<<"1. CA - 498 "<<endl;

cout<<"\t08-11-2023 8:00AM 10hrs Rs.25000 "<<endl;

cout<<"2. CA - 698 "<<endl;

cout<<"\t09-11-2023 10:00AM 15hrs Rs.30000 "<<endl;

cout<<"3. CA - 798 "<<endl;

cout<<"\t10-11-2023 7:00PM 9hrs Rs.35000 "<<endl;

cout<<"\nSelect the flight you want to book : ";

cin>>choice1;

if (choice1==1)

{

charges=25000;

cout<<"\nYou successfully booked the flight CA-498 "<<endl;

cout<<" you can go back to main menu and collect the ticket "<<endl;

}

else if (choice1==2)

{

charges=30000;

cout<<"\nYou successfully booked the flight CA - 698 "<<endl;

cout<<" you can go back to main menu and collect the ticket "<<endl;

}

else if (choice1==3)

{

charges=35000;

cout<<"\nYou successfully booked the flight CA-798 "<<endl;

cout<<" you can go back to main menu and collect the ticket "<<endl;

}

else {

cout<< "invalid input ,shifting to previous menu "<<endl;

flights();

}

cout<<"press any Number key to go back to main menu "<<endl;

cin>>back;

if (back==1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 3:

{

cout<<"\_\_\_\_\_\_\_\_Welcome to UK AIRWAYS\_\_\_\_\_\_\_\n "<<endl;

cout<<"Following are the flights \n"<<endl;

cout<<"1. UK- 498 "<<endl;

cout<<"\t10-11-2023 8:00AM 15hrs Rs.44000 "<<endl;

cout<<"\nSelect the flight you want to book :";

cin>>choice1;

if (choice1==1)

{

charges=44000;

cout<<"\nYou successfully booked the flight UK-498"<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else {

cout<< "invalid input ,shifting to previous menu"<<endl;

flights();

}

cout<<"press any number key to go back to main menu"<<endl;

cin>>back;

if (back==1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 4:

{

cout<<"\_\_\_\_\_\_\_\_Welcome to US AIRWAYS\_\_\_\_\_\_\_\n"<<endl;

cout<<"Following are the flights \n"<<endl;

cout<<"1. US - 498 "<<endl;

cout<<"\t15-11-2023 8:00AM 22hrs Rs.37000"<<endl;

cout<<"2. US2A - 698 "<<endl;

cout<<"\t18-11-2023 10:00AM 25hrs Rs.39000"<<endl;

cout<<"3. US - 798 "<<endl;

cout<<"\t20-11-2023 7:00PM 30hrs Rs.45000"<<endl;

cout<<"\nSelect the flight you want to book :";

cin>>choice1;

if (choice1==1)

{

charges=37000;

cout<<"\nYou successfully booked the flight US-498 "<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else if (choice1==2)

{

charges=39000;

cout<<"\nYou successfully booked the flight US2A - 698 "<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else if (choice1==3)

{

charges=45000;

cout<<"\nYou successfully booked the flight US-798 "<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else {

cout<< "invalid input ,shifting to previous menu"<<endl;

flights();

}

cout<<"press any number key to go back to main menu"<<endl;

cin>>back;

if (back==1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 5:

{

cout<<"\_\_\_\_\_\_\_\_Welcome to Austrialian flights\_\_\_\_\_\_\_\n"<<endl;

cout<<"Following are the flights \n"<<endl;

cout<<"1. AUS - 498 "<<endl;

cout<<"\t01-11-2023 8:00AM 18hrs Rs.24000"<<endl;

cout<<"2. AUS - 698 "<<endl;

cout<<"\t03-11-2023 10:00AM 20hrs Rs.20000"<<endl;

cout<<"3. AUS - 798 "<<endl;

cout<<"\t07-11-2023 7:00PM 24hrs Rs.16000"<<endl;

cout<<"\nSelect the flight you want to book :";

cin>>choice1;

if (choice1==1)

{

charges=24000;

cout<<"\nYou successfully booked the flight AUS-498"<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else if (choice1==2)

{

charges=20000;

cout<<"\nYou successfully booked the flight AUS - 698"<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else if (choice1==3)

{

charges=16000;

cout<<"\nYou successfully booked the flight AUS-798"<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else {

cout<< "invalid input ,shifting to previous menu"<<endl;

flights();

}

cout<<"press any number key to go back to main menu"<<endl;

cin>>back;

if (back==1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 6:

{

cout<<"\_\_\_\_\_\_\_\_Welcome to EUROPIAN Emirates\_\_\_\_\_\_\_\n"<<endl;

cout<<"Following are the flights \n"<<endl;

cout<<"1. EU- 498 "<<endl;

cout<<"\t10-11-2023 8:00AM 30hrs Rs.14000"<<endl;

cout<<"2. EU - 698 "<<endl;

cout<<"\t13-11-2023 10:00AM 25hrs Rs.15000"<<endl;

cout<<"3. EU - 798 "<<endl;

cout<<"\t15-11-2023 7:00PM 19hrs Rs.20000"<<endl;

cout<<"\nSelect the flight you want to book :";

cin>>choice1;

if (choice1==1)

{

charges=14000;

cout<<"\nYou successfully booked the flight EU-498"<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else if (choice1==2)

{

charges=15000;

cout<<"\nYou successfully booked the flight EU - 698"<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else if (choice1==3)

{

charges=20000;

cout<<"\nYou successfully booked the flight EU-798"<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else {

cout<< "invalid input ,shifting to previous menu"<<endl;

flights();

}

cout<<"press any number key to go back to main menu"<<endl;

cin>>back;

if (back==1)

{

mainMenu();

}

else

{

mainMenu();

}

}

case 7:

{

cout<<"\_\_\_\_\_\_\_\_Welcome to INDIAN AIRWAYS\_\_\_\_\_\_\_\n"<<endl;

cout<<"Following are the flights \n"<<endl;

cout<<"1. IND - 498 "<<endl;

cout<<"\t18-11-2023 8:00AM 10hrs Rs.14000"<<endl;

cout<<"2. IND - 698 "<<endl;

cout<<"\t09-11-2023 10:00AM 15hrs Rs.9000"<<endl;

cout<<"3. IND - 798 "<<endl;

cout<<"\t10-11-2023 7:00PM 9hrs Rs.20000"<<endl;

cout<<"\nSelect the flight you want to book :";

cin>>choice1;

if (choice1==1)

{

charges=14000;

cout<<"\nYou successfully booked the flight IND-498"<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else if (choice1==2)

{

charges=9000;

cout<<"\nYou successfully booked the flight IND - 698"<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else if (choice1==3)

{

charges=20000;

cout<<"\nYou successfully booked the flight IND-798"<<endl;

cout<<" you can go back to main menu and collect the ticket"<<endl;

}

else {

cout<< "invalid input ,shifting to previous menu"<<endl;

flights();

}

cout<<"press any number key to go back to main menu"<<endl;

cin>>back;

if (back==1)

{

mainMenu();

}

else

{

mainMenu();

}

}

default :

{

cout<<"invalid input, shifting to main menu....please try again!!!"<<endl;

mainMenu();

break;

}

}

}

};

float registration::charges;

int registration::choice;

class ticket : public registration,Details

{

public :

void Bill()

{

string Destination="";

ofstream outf("records.txt");

{

outf<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_MANU Airlines\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

outf<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Ticket\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

outf<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

outf<<"customerID:"<<Details::cId<<endl;

outf<<"customer Name:"<<Details::name<<endl;

outf<<"customer gender:"<<Details::gender<<endl;

outf<<"\tDescription"<<endl<<endl;

if(registration::choice==1)

{

Destination="Dubai";

}

else if(registration::choice==2)

{

Destination="Canada";

}

else if(registration::choice==3)

{

Destination="UK";

}

else if(registration::choice==4)

{

Destination="USA";

}

else if(registration::choice==5)

{

Destination="Austrilia";

}

else if(registration::choice==6)

{

Destination="Europe";

}

else if(registration::choice==7)

{

Destination="India";

}

outf<<"Destination \t\t"<<Destination<<endl;

outf<<"Flight cost :\t\t "<<registration::charges<<endl;

}

outf.close();

}

void dispBill()

{

ifstream ifs("records.txt");

{

if(!ifs)

{

cout<<"file error!!"<<endl;

}

while(!ifs.eof())

{

ifs.getline(arr,100);

cout<<arr<<endl;

}

}

ifs.close();

}

};

void mainMenu()

{

int lchoice;

int schoice;

int back;

cout<<"\t \_\_\_\_\_\_\_MANUU\_\_\_\_\_\_ AIRLINES \n"<<endl;

cout<<"\t \_\_\_\_\_\_\_MAIN MENU\_\_\_\_\_\_\_\_\_\_\_ "<<endl;

cout<<"\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

cout<<"\t|\t\t\t\t\t\t\t|"<<endl;

cout<<"\t|\t press 1 to add the Customer Details |"<<endl;

cout<<"\t|\t press 2 for Flight Registration |"<<endl;

cout<<"\t|\t press 3 for Ticket and Charges |"<<endl;

cout<<"\t|\t press 4 to Exit |"<<endl;

cout<<"\t|\t\t\t\t\t\t\t|"<<endl;

cout<<"\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

cout<<"Enter the choice : ";

cin>>lchoice;

Details d;

registration r;

ticket t;

switch(lchoice)

{

case 1:

{

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_Customers\_\_\_\_\_\_\_\_\_\_\_\n"<<endl;

d.information();

cout<<"press any number key to go back to main menu";

cin>>back;

if(back==1)

{

mainMenu();

}

else{

mainMenu();

}

break;

}

case 2:{

cout<<"\_\_\_\_\_\_\_\_Book a flight using this system \_\_\_\_\_\_\_\_\n"<<endl;

r.flights();

break;

}

case 3:{

cout<<"\_\_\_\_\_\_\_\_\_\_\_GET YOUR TICKET\_\_\_\_\_\_\_\_\n"<<endl;

t.Bill();

cout<<"Your ticket is printed ,you can collect it \n "<<endl;

cout<<"press 1 to display your ticket ";

cin>>back;

if (back==1)

{

t.dispBill();

cout<<"press any number key to go back to main menu:";

cin>>back;

if(back==1)

{

mainMenu();

}

else{

mainMenu();

}

}

else{

mainMenu();

}

break;

}

case 4:

{

cout<<"\n\n\t\_\_\_\_\_\_\_\_\_\_Thankyou\_\_\_\_\_\_\_\_\_\_"<<endl;

break;

}

default :

{

cout<<"Invalid choice, please TRY Again!!\n"<<endl;

mainMenu();

break;

}

}

}

int main()

{

Management Mobj;

return 0;

}